IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application.

1 Claims 1-16 (withdrawn).

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1 17. (Currently amended) A silica-based organic film obtained by a method comprising[[ the steps of]]:
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applying a coating solution on a target material to form a coating film, the coating solution containing a reaction product obtained by hydrolyzing, in an organic solvent in the presence of an acid catalyst, at least one first alkoxysilane compound selected from the group consisting of compounds represented by general formula (I):

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$$R^{1}_{2}Si(OR^{2})_{2}...(I)$$

wherein R¹ represents an alkyl group having 1 to 4 carbon atoms or a phenyl group, and
R² represents an alkyl group having 1 to 4 carbon atoms,

10 and compounds represented by general formula (II):

wherein R³ represents an alkyl group having 1 to 4 carbon atoms or a phenyl group, and R⁴ represents an alkyl group having 1 to 4 carbon atoms,

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baking the coating film in an atmosphere having an oxygen concentration of 1000 ppm or less, and at a temperature from 680°C to 750°C to form a film,

wherein an etching rate of the silica-based organic film in wet etching using

hydrofluoric acid having a concentration of 0.5% by weight at 25°C is 60 angstroms/min or

less, and

wherein an organic group content, which is represented as a ratio of the total of a peak
area of SiR¹ and a peak area of SiR³ to a peak area of Si-O-Si in a spectrum obtained by

22 measuring an infrared absorption spectrum of the film, is 0.01 or more.

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1 18. (Cancelled)
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- 18. (Cancened)
- 1 19. (Cancelled)
- 20. (Currently amended) The silica-based organic film according to claim [[18]] 17, wherein a
- 2 carbon content is from 6 to 18 atm%.
- 30. (Currently amended) A silica-based organic film obtained by a method[[,]] comprising[[the
- 2 steps of]]:
- applying a coating solution on a target material to form a coating film, the coating
- 4 solution containing a reaction product obtained by hydrolyzing, in an organic solvent in the
- 5 presence of an acid catalyst, at least one first alkoxysilane compound selected from the group
- 6 consisting of compounds represented by general formula (I):
- 7 $R^{1}_{2}Si(OR^{2})_{2}...(I)$
- 8 wherein R¹ represents an alkyl group having 1 to 4 carbon atoms or a phenyl group, and R²
- 9 represents an alkyl group having 1 to 4 carbon atoms,
- and compounds represented by general formula (II):
- 11 $R^3Si(OR^4)_3...(II)$
- wherein R³ represents an alkyl group having 1 to 4 carbon atoms or a phenyl group, and R⁴
- 13 represents an alkyl group having 1 to 4 carbon atoms,
- and at least one second alkoxysilane compound selected from the group consisting of
- compounds represented by general formula (III):
- 16 Si(OR⁵)₄... (III)
- 17 wherein R⁵ represents an alkyl group having 1 to 4 carbon atoms,
- 18 and
- baking the coating film in an atmosphere having an oxygen concentration of 1000 ppm
- 20 or less, and at a temperature from 680°C to 750°C to form a film,
- 21 wherein an etching rate of the silica-based organic film in wet etching using
- 22 hydrofluoric acid having a concentration of 0.5% by weight at 25°C is 60 angstroms/min or

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- 24 wherein an organic group content, which is represented as a ratio of the total of a peak
- 25 area of SiR¹ and a peak area of SiR³ to a peak area of Si-O-Si in a spectrum obtained by
- 26 measuring an infrared absorption spectrum of the film, is 0.01 or more.
 - 1 31. (Cancelled)
 - 1 32. (Cancelled)
 - 1 33. (Previously added) The silica-based organic film according to claim [[31]] 30, wherein a
- 2 carbon content is from 6 to 18 atm%.